Page 1

Item ID: Revision ID: Item Name:	646.4001 AS350 Cable C	· ·utter		Accept		*N900	040	100)*	Setup	Start Stop	I VI	S1* S2*	
Start Date: Required Date Reference:	4/16/13 : 4/30/13	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*			Cust Item Customer:	D:					IV.		
Approvals:	Process Plan	· MLJ	Date: /3-04-/6	Tooling:			ate:				Start Stop	*N *N	R1*	
Sequence ID/ Work Center II	D	Operation Description		Set U Run I	p/ Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rejec Qty		Reject Number	Insp. Stamp	÷
Draw Nbr 646.4000 100 *100* Document Control 110 *110* Packaging Packaging	A	DOCUMENT CONTROI Memo Photocopy bl Pick Kit Memo	uefile & type labels per PPF	0.00 0.00 0.46.4001 0.00	(AS) 16	त्रात्रभ					91	3 /2	3/0/23	
120 *120* QC Quality Control		QC4- 100% Inspect kits fo	or completeness	0.00	23 13 S C	24	·							

		,	
NCR:	Yes	/	No

WORK ORDER NON-CONFORMANCE / UPDATE

	DQA:	Date:	
	QA Closed:	Date:	* ',
E	PARTMENT	/PROCESS	
		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
	Sign & Date	Verification	QC Inspector

										QA Closed:	Date	· ·
Work Order:					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	!
				<u> </u>	Rework	Rework Skid-tube Crosst			Crosstube]	Water Jet	Engineering
Part No.					Scrap	1 1		Machining	Small Fab	Pro	d. Eng. Coor.	Quality
					Use-as-is	1		noforming	Finishing	Rec/Sto	re/Packaging	Other
NCR No.					Work Order Update	Large Fab Composite Supplier						
·						_				"		
Root				Desc	ription of work order update		nitial	Ac	tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data	·											
Equip/Tooling				1								
Operator												
Material												
Setup												
Other												
Process	ocess			٠,	-,2/)	ŀ						
Supplier	i			ĺ			3					
Training							• •					
Unapproved										<u> </u>		
						AUL	T CATE	GORY				
Landing (General		1		_	- 7	لــ	-
	Bending				Bend		Grain			Ovalized	<u> </u>	Pressure/Forced
	Centre No	ot Concer	ntric to O	/S	BOM/Route		Hardwa			Over/Under	 	Temperature/Cure
	Cracks				Broken/Damaged		'	ion Incomplete	<u> </u>	Part Incorre		Weld
l ——	Crushed/0	Crimped.			Burrs		l	tions Incomplete/	'Unclear	Part Lost/M	issing	Wrong Stock Pulled
Cuffs Contamination						enance		Part Moved				
Heat Treat Countersink				Mislabe	eled	_	Positioned V		_			
	Inspection	n Strip in	Tube		Cut Too Short		Misrea	d		Power Loss/	Surge	Other
				Drill Holes		Offset						
	Torque W	aves in E	xtrusion		Drawing		Out of	Calibration				
Turning Sequence Fin			Finish	Out of Sequence								
	Wave/Tw	ist in Tub	e	[Folio		Outside	Dimensions		-		
U./FORMS/Ouglity			. /21601110	- 1 -								

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

• April-16-13 12:34:40 PM Item ID: 646.4001 Accept *N900040100* Setup Start **Revision ID:** Item Name: AS350 Cable Cutter Start Date: 4/16/13 Start Qty: 1.00 Cust Item ID: Required Date: 4/30/13 Req'd Qty: 1.00 **Customer:** Reference: Run Approvals: **Process Plan:** Date: Tooling: Date: QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. Work Center ID Description **Run Hours** Code Qty Number Qty Stamp 130 0.00 *130* Packaging \$ 13-5-29 Packaging 0.00 Memo Packaging Identify and pack for shipping as per PPP 646,4001 Location: 140 QC21- Final Inspection - Work Order Release 0.00 MLJ 13-05-27 QC 0.00 Memo Quality Control

											DQA:	Date	e:	
NCR: Y	es / No					WORK ORDER NON-C	O	NFORI	MANCE / UPI	DATE	QA Closed:	Date	e: •	
Work Orde	ır.		•			DISPOSITION				AGAINST DE	PARTMENT	/PROCESS		
Part N	lo				_	Rework Scrap Use-as-is Work Order Update	Machining Small Fab Prod. Eng. Coor. Qua					Engineering Quality Other		
Root				De	scri	ption of work order update		nitial	Act	ion	Sign &			
Cause	Date	Step	Qty		(or Non-conformance	Ch	ief Eng	Descr	iption	Date	Verification	QC Inspector	
Ooc/Data Equip/Tooling Operator Material Setup Other Process Supplier Fraining Unapproved														
Landing Gear General FAULT CATEGORY						dok i								
Landi	Bending Centre N Cracks Crushed/ Cuffs Heat Tre- Inspectic Ripples in	/Crimped at on Strip in n Bend	ı Tube			Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		Instruct Mainte Mislabe Misread Offset	on Incomplete ions Incomplete/Unance elled	Unclear	Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct issing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulle	
	Torque Waves in Extrusion				1	Drawing	1	lour or c	-anni ation					

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April-Jo-13 12.34:43 PM

Work Order ID: -99930

99930

Parent Item:

646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3301		Manufactured	No			•	Each	25.0000	6		~		
6463301	k								**			//	
Upper Cutter Assembly													~
-				1			_						

=			Location	ļ.	Loc Qty	Loc Code	
	•		ST139A		7		
•				125083	7		
	, ·		ST545		18		
(4(200)				93247	18		
646.3001	Manufactured	No			Each	17.0000	
*546 3004 * Lower Cutter Assembly							**
			Location		Loc Otv	Loc Code	

SW			Locatio ST139A	_	Loc Otv 9	Loc Code
⊃ m²			ST537	125083	9 8	
	Manufactured	No	•	93425	8 Each	6.0000
9108					Luon	0.0000

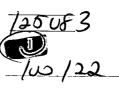


646.2910



Location Loc Qty Loc Code ST139A 125083





**





NCR:	Yes	/	No

WORK ORDER NON-CONFORMANCE /

UPDATE	DQA:	Date:	
	QA Closed:	Date:	•
AGAINST DE	PARTMENT	PROCESS	
Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Action Description	Sign & Date	Verification	QC Inspector

Doc/Data												QA Closed:	Date	e: '
Part No. Part No.	Work Orde	er.			<u> </u>		DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Cause Date Step Oty Or Non-conformance Chief Eng Description Date Verification QC Inspector Doc/Data Couple of Chief Eng Description Date Chief Eng Description Date Chief Eng Des	Part N	- . No.					Scrap Use-as-is	Machining Small Fab Prod. Eng. Coor. Thermoforming Finishing Rec/Store/Packaging					Quality	
Cause Date Step Qty or Non-conformance Chief Eng Description Date Verification QC Inspector Doc/Data Equipy/Tooling Qperator Qper	Root	T				De	escription of work order update	1	nitial	Ac	ction	Sign &	•	
Equip/Tooling Operator Operator Operator Operator Operator Operator Operator Operator Operator Other Operator O	Cause		Date	Step	Qty		1 '	Ch	ief Eng	Desc	cription	Date	Verification	QC Inspector
Landing Gear General General General Ovalized Pressure/Forced Temperature/Cure Centre Not Concentric to O/S BOM/Route Hardware Over/Under tolerance Temperature/Cure Weld Crushed/Crimped. Burrs Instructions Incomplete Part Incorrect Weld Wrong Stock Pulle Cuffs Contamination Maintenance Part Moved	Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training													
Bending Centre Not Concentric to O/S Cracks Broken/Damaged Crushed/Crimped. Cuffs Contamination Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Bend Grain Ovalized Over/Under tolerance Hardware Inspection Incomplete Inspection Incomplete/Unclear Instructions Incomplete Instr	опаррточеи			L	<u> </u>	' 		FAUL	T CATE	GORY		<u> </u>	<u> </u>	
Wave/Twist in Tube Folio Outside Dimensions	Landi		Bending Centre No Cracks Crushed/G Cuffs Heat Trea Inspection Ripples in Torque W Turning S	Crimped. It In Strip in Bend Vaves in E equence	Tube Extrusio		Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing Finish		Hardwa Inspecti Instruct Mainte Mislabe Misread Offset Out of C	ion Incomplete ions Incomplete, enance eled d Calibration Sequence	/Unclear	Over/Under Part Incorre Part Lost/M Part Moved Positioned V	ct issing [Temperature/Cure Weld Wrong Stock Pulled

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April-16-13 12:34:43 PM

Work Order ID: 99930

99930

Parent Item:

.646.3810

646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

**

Required Qty: 1.00

646.3510

Manufactured

Location ST139A

93300

Loc Qty

Loc Code

8.0000

B10430

Manufactured

Each 3.0000

Each

Manufactured

Location ST139B

125083

Loc Oty Loc Code 3

Each 2.0000

646.3512 Manufactured

No

Location Loc Qty Loc Code ST 2 125023 2

Each 1.0000

646.3513

646.3511

Manufactured No Location ST139A 125083

125083

24.0000

Loc Code

Location ST139A

Loc Oty 24 24

Loc Oty

Each

Loc Code

125083

		,	
NCR:	Yes	/	No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA:	Date:	
		G,

									QA Closed:	Date:	•
Work Orde	or.				DISPOSITION			AGAINST DEI	PARTMENT	PROCESS	
Part N	lo			Rework Skid-tube Crosstube Water Jet Engineering Scrap Machining Small Fab Prod. Eng. Coor. Quality Use-as-is Work Order Update Large Fab Composite Supplier					Quality		
Root				Des	scription of work order update	Initial	Actio	n	Sign &		
Cause	Date	Step	Qty	1	or Non-conformance	Chief Eng	Descrip	otion	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator										`	
Material						:					
Setup									•	,	
Other											
Process	_										·
Supplier										:	
Training											
Unapproved		<u> </u>	<u> </u>			ALUT CATE	CORV				
111-					FAULT CATEGORY						
Landir	ng Gear				General Bend	Grain			Ovalized	Γ-	Pressure/Forced
	Bending Centre No	-+ Canaa	.+rio.+o./	7/5	BOM/Route	Hardw	aro.		Over/Under	tolerance	Temperature/Cure
	Cracks	Ji Concei	itric to t	J/3	Broken/Damaged	├ ──-	ion Incomplete	<u> </u>	Part Incorred	-	Weld
ŀ	Crushed/	Crimpod			Burrs	\vdash	tions Incomplete/Un	oclear	Part Lost/Mi	<u> </u>	Wrong Stock Pulled
	Cuffs	ciliipeu.		Ì	Contamination	₩.	enance	L.	Part Moved	33/118	
ł	Heat Trea	st.			Countersink	Mislab			Positioned V	Vrong	
}	Inspection		Tube		Cut Too Short	Misrea		 	Power Loss/		Other
ŀ	Ripples in		1000		Drill Holes	Offset	~	L	1 2233/		
<u> </u>	Torque W		xtrusio	,	Drawing		Calibration		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·	
	Turning S				Finish	\vdash	Sequence		-		
ļ	Wave/Tw				Folio	⊢	e Dimensions				

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April; 16-13 12:34:43 PM

Work Order ID: 99930

Parent Item:

646.4001

Parent Item Name: AS350 Cable Cutter

99930 *646 4001*

Start Date: 4/16/13

Start Qty: 1.00

8,710.000

Each

Required Date: 4/30/13

Required Qty: 1.00

NASLJ49F0332P

Purchased

Purchased

No

No

Location Loc Qty Loc Code GA 182 122063 182 ST294 158 122063 158 ST295 3 123352 3 st510 8367 123900 8367 Each

4,780.000

MS21042L3

Location	<u>n</u>	Loc Oty	Loc Code
FP001		3	
	122141	3	
GA		119	
	122452	119	
ST314		268	
	117885	32	
	119017	. 55	
	119075	138	
	123265	43	
ST506		4390	
	123900	974	
	124291	3416	

WORK ORDER NON-CONFORMANCE / UPDATE QA Closed: Date: Output QA Closed: Date: Output DISPOSITION Rework Part No. Part No. Use-as-is NCR No. Work Order Update Work ORDER NON-CONFORMANCE / UPDATE QA Closed: Date: Output AGAINST DEPARTMENT/PROCESS Water Jet Engineerin Machining Small Fab Prod. Eng. Coor. Quali Thermoforming Thermoforming NCR No. Work Order Update Use-as-is Vorder Update Output Large Fab Composite Output Supplier	•
Work Order: Part No. DISPOSITION AGAINST DEPARTMENT/PROCESS	
Work Order: Rework Skid-tube Crosstube Water Jet Engineering Part No. Scrap Machining Small Fab Prod. Eng. Coor. Qualing Thermoforming Finishing Rec/Store/Packaging Other	1
Part No. Rework Skid-tube Crosstube Water Jet Engineering Small Fab Prod. Eng. Coor. Use-as-is Thermoforming Finishing Rec/Store/Packaging Other	
Part No. Scrap Machining Small Fab Prod. Eng. Coor. Quali Use-as-is Thermoforming Finishing Rec/Store/Packaging Other	
Use-as-is Thermoforming Finishing Rec/Store/Packaging Other	_
Root Description of work order update Initial Action Sign &	
Cause Date Step Qty or Non-conformance Chief Eng Description Date Verification QC Inspe	tor
Doc/Data Doc/Data	
Equip/Tooling ·	-
Operator	
Material	
Setup	
Other	
Process	
Supplier	
Training	
Unapproved	
FAULT CATEGORY	
Landing Gear General	لما
Bending Bend Grain Ovalized Pressure/For	
Centre Not Concentric to O/S BOM/Route Hardware Over/Under tolerance Temperature Cracks Broken/Damaged Inspection Incomplete Part Incorrect Weld	Jure
	ullad
Crushed/Crimped. Burrs Instructions Incomplete/Unclear Part Lost/Missing Wrong Stock Cuffs Contamination Maintenance Part Moved	uncu

Mislabeled

Out of Calibration
Out of Sequence

Outside Dimensions

Misread

Offset

Countersink

Cut Too Short Drill Holes

Drawing

Finish

Folio

Positioned Wrong

Power Loss/Surge

Other*

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Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

April-46-13 12:34:43 PM

Work Order ID: 99930

99930

Manufactured

Parent Item:

646.3710

646.3210

646.3713

646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

6.0000

646.3110

Manufactured

Location Loc Qty ST139A 125083

Each 22.0000

Loc Code

Each

Manufactured

Location Loc Qty Loc Code ST425 22 97175 22

Each 5.0000

Manufactured No Location Loc Oty Loc Code ST538 5 93488

5 Each 7.0000

**

Location Loc Qty Loc Code ST139A 93208

											DQA:	Date:	
NCR:	'es	/ No				l	WORK ORDER NON-O	100	NFOR	MANCE / UPDATE	-		•
											QA Closed:	Date:	
Work Orde	ır.						DISPOSITION	ł		AGAINST DE	PARTMENT/	PROCESS	
WOIK OIG	ZI •	· .				i	Rework	1		Skid-tube Crosstube]	Water Jet	Engineering
Part N	10.						Scrap		1	Machining Small Fab	Prod	I. Eng. Coor.	Quality
			· · · - · · · ·				Use-as-is		Thern	noforming Finishing	Rec/Stor	e/Packaging	Other
NCR No.							Work Order Update			Large Fab Composite		Supplier	
Root De				De	scri	ption of work order update	Π	nitial	Action	Sign &			
Cause		Date	Step	Qty		(or Non-conformance	Ch	ief Eng	Description	Date	Verification	QC Inspector
oc/Data													
quip/Tooling		:										•	
perator													
Material										<u>{</u>		•	
etup				<u> </u>									
)ther					1						•		
rocess	_				1								<u> </u>
upplier raining											•		
Inapproved													
							F	AUL	T CATE	GORY			
Landi	ng (Gear			·]		General	_	,		,		-
		Bending			1	L	Bend		Grain	<u></u>	Ovalized		Pressure/Forced
		Centre No	t Concer	ntric to	O/S		BOM/Route	L	Hardwa	 	Over/Under	 	Temperature/Cure
		Cracks				<u></u>	Broken/Damaged	<u></u>	4	ion Incomplete	Part Incorred		Weld
		Crushed/0	Crimped.	-			Burrs	<u> </u>	4	tions Incomplete/Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
	-	Cuffs				_	Contamination	\vdash	Mainte	<u> </u>	Part Moved		
		Heat Trea		`.		<u> </u>	Countersink	_	Mislabe		Positioned W		Jour
		Inspection		Tube		_	Cut Too Short	-	Misread	d	Power Loss/	surge	Other
		Ripples in		.	ļ	_	Drill Holes	-	Offset	Cattle santa a			
		Torque W			n	-	Drawing	\vdash	-	Calibration			
		Turning Se				-	Finish	\vdash	1	Sequence		· · · · ·	
	Wave/Twist in Tube					1	Folio	1	JOutside	Dimensions			

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Wave/Twist in Tube

April-16-13 12:34:43 PM

Work Order ID: 99930

Parent Item:

MS24694-S51

646.4001

Parent Item Name: AS350 Cable Cutter

99930 *646 4001*

Start Date: 4/16/13

Start Qty: 1.00

108.0000

Loc Code

Loc Code

Each

Required Date: 4/30/13

Required Qty:

5m?

AN3-13A

AN3-4A

Purchased

Purchased

No

No

Location Loc Qty ST303 108 116805 123741 107 -Each

95.0000

Purchased No

Location Loc Qty ST351 45 104746 15 120910 30 ST512 50 123759 50 Each

453.0000







Location	Loc Oty	Loc Code
ST350	318	
120308	80	
122814	38	
124858	200	
ST512	135	
120770	134	
123900	1	

s / 1	No				1							
						WORK ORDER NON-C	CON	NFORM	MANCE / UPDATE	QA Closed:	Date:	• '
			â			DISPOSITION			AGAINST DE			
Part No						Rework Scrap Use-as-is Work Order Update		t Therm	Machining Small Fab	-4	· ·	Engineering Quality Other
Da	te	Sten	Otv	D	1	•	1		Action Description	Sign & Date	Verification	QC Inspector
		,				•			-			
				i		F.	AUL	T CATE	GORY			
Landing Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion					General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing		Inspecti Instruct Mainte Mislabe Misread Offset Out of O	on Incomplete ions Incomplete/Unclear nance led Calibration	Part Incorred Part Lost/Mi Part Moved Positioned V	ct ssing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other	
· · · · · · · · · · · · · · · · · · ·	Gear Bend Crack Crush Cuffs Heat Inspe	Date Gear Bending Centre No Cracks Crushed/C Cuffs Heat Tread Inspection Ripples in Torque W	Date Step Gear Bending Centre Not Concer Cracks Crushed/Crimped. Cuffs Heat Treat Inspection Strip in Ripples in Bend	Date Step Qty Gear Bending Centre Not Concentric to Cracks Crushed/Crimped. Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion	Date Step Qty Date Step Qty Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped. Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion	Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped. Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion	Rework Scrap Use-as-is Work Order Update Date Step Qty Description of work order update or Non-conformance F. Gear General Bending Centre Not Concentric to O/S Cracks Crushed/Crimped. Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Rework Scrap Use-as-is Work Order Update or Non-conformance F. Gear General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing	Rework Scrap Use-as-is Work Order Update Date Step Qty Description of work order update or Non-conformance Ch Bending Centre Not Concentric to O/S Cracks Crushed/Crimped. Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Table Ripples in Bend Torque Waves in Extrusion Texture Ripples in Bend Texture Ripples in Bend Torque Waves in Extrusion Texture Ripples in Bend Texture	Rework Scrap Use-as-is Work Order Update Unitial Chief Eng Date Step Qty Description of work order update or Non-conformance Chief Eng FAULT CATE Gear General Bending Gentre Not Concentric to O/S Cracks Cracks Broken/Damaged Inspection Grain Bom/Route Broken/Damaged Inspection Grain Bom/Route Broken/Damaged Inspection Grain Bom/Route Broken/Damaged Inspection Grain Bom/Route Burrs Instruct Cuffs Contamination Mainte Heat Treat Countersink Mislabe Inspection Strip in Tube Ripples in Bend Drill Holes Offset Torque Waves in Extrusion Drawing Out of Contamination Out of Contamination Drawing Out of Contamination Out of Contaminatio	Rework Scrap Machining Small Fab Use-as-is Work Order Update Initial Large Fab Composite Date Step Qty Description of work order update or Non-conformance Chief Eng Description	DISPOSITION Rework Skid-tube Crosstube Small Fab Proposition Scrap Machining Small Fab Proposition Step Step Qty Or Non-conformance Chief Eng Description Date Date Step Qty Or Non-conformance Chief Eng Description Date Da	DISPOSITION Rework Scrap Use-as-is Work Order Update Use-as-is Work Order Update Or Non-conformance Date Step Qty Description of work order update or Non-conformance Date Step Qty Description of work order update or Non-conformance Date Step Qty Description of work order update or Non-conformance Date Step Qty Description of work order update or Non-conformance Date Step Qty Description Date Verification FAULT CATEGORY Gear General Bending Contre Not Concentric to O/S Cracks Cracks Grain Description Ovalized Over/Under tolerance Part Incorrect Part Incorrect Description Description Description Ovalized Over/Under tolerance Part Incorrect Part Incorrect Part Lost/Missing Large Fab Description Ovalized Over/Under tolerance Part Incorrect Part Lost/Missing Part Moved Part Moved Part Moved Positioned Wrong Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion Drawing Drawing Drawing Drawing Out of Calibration

Outside Dimensions

Wave/Twist in Tube

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April 16-13 / 2:34:43 PM

Work Order ID: 99930 -

646.4001

Parent Item Name: AS350 Cable Cutter

Parent Item:

MS20470AD5-5.5

646.3711

646.3712

99930

646 4001

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

300.0000

Purchased

Purchased

Location ST329

No

123785

123425

125083

Loc Oty 300 300

Each

Each

741.0000

Loc Code

Manufactured

Location ST336

741 741 Each

Loc Oty

Loc Code

2.0000

**

Manufactured No Location ST139B

125083

Loc Qty 2 2

Each

Loc Code

2.0000

13-04-30

Location ST139B

Loc Qty 2 2 Loc Code

NCR:	Yes / No			•	WORK ORDER NON-CONFORMANCE / UPDATE									
									QA Closed:	Date:	•			
Work Orde	er:				DISPOSITION			AGAINST DE	PARTMENT	PROCESS				
Part No					Rework Scrap Use-as-is Work Order Update	The	Skid-tube Machining ermoforming Large Fab	Crosstube Small Fab Finishing Composite	4	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other			
Root		1		Descr	iption of work order update	Initial	Actio	on	Sign &					
Cause	Date	Step	Qty		or Non-conformance	Chief E	ng Descri _l	ption	Date	Verification	QC Inspector			
Doc/Data				1										
quip/Tooling				I										
Operator														
Material										·				
Setup										'1				
Other						}								
rocess		1	-							ı				
Supplier				İ										
Training														
Jnapproved							<u></u>							
					F	AULT CA	TEGORY		· · · · · · · · · · · · · · · · · · ·					
Landi	ng Gear			_	General				,		7			
	Bending			1 L	Bend	Grai	n		Ovalized		Pressure/Forced			
	Centre N	lot Conce	ntric to	o/s _	BOM/Route	Hard	ware	ļ	Over/Under	tolerance	Temperature/Cure			
	Cracks				Broken/Damaged	Inspe	ection Incomplete		Part Incorred	ct <u> </u>	Weld			
	Crushed	/Crimped	-		Burrs	Instr	uctions Incomplete/Ur	nclear	Part Lost/Mi	ssing	Wrong Stock Pulled			
	Cuffs				Contamination	Maii	ntenance		Part Moved					
	Heat Tre	at			Countersink	Misla	abeled	Positioned Wrong						

Misread

Out of Calibration

Out of Sequence

Outside Dimensions

Offset

DQA:

Power Loss/Surge

Other

Date:

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April-16-13 12:34:43 PM

Work Order ID: ~99930

646.4001

*99930**

Parent Item Name: AS350 Cable Cutter

Parent Item:

646 4001

646.3811

AN3-6A

MS24694-S55

Manufactured

Purchased

Purchased

Each 29.0000

Start Qty: 1.00

Start Date: 4/16/13

Required Date: 4/30/13

Required Qty: 1.00

No

No

Location Loc Qty ST139A 29 125083 9 93224 20

Each 438.0000

**

125083

Location Loc Oty ST350 300 124296 300 ST351 61 117441 34 121166 13 122993 10 123831 4 ST512 77 122814 77 Each

Loc Code

92.0000

Loc Code

Location Loc Qty Loc Code ST303 124296 92

124296

NCR: Y	es / No				WORK ORDER NON-CONFORMANCE / UPDATE									
									QA Closed:	Date:	•			
Work Orde	er:				DISPOSITION			AGAINST I	DEPARTMENT	/PROCESS				
Part No					Rework Scrap Use-as-is Work Order Update		t Therm	Skid-tube Crosstube Machining Small Fab noforming Finishing Large Fab Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other			
Root				Desci	ription of work order update	In	itial	Action	Sign &					
Cause	Date	Step	Qty		or Non-conformance	Chie	ef Eng	Description	Date	Verification	QC Inspector			
Doc/Data										·				
Equip/Tooling									-					
Operator									1					
Material								•						
Setup											•			
Other						-								
Process			'											
Supplier														
Training														
Unapproved		<u> </u>												
					<u> </u>	FAULT	CATE	GORY						
Landir	ng Gear			_	General			r	 1		1			
	Bending				Bend	1	Grain		Ovalized		Pressure/Forced			
	Centre N	ot Conce	ntric to	o/s	BOM/Route	 	lardwa		Over/Unde	 	Temperature/Cure			
	Cracks				Broken/Damaged			on Incomplete	Part Incorre		Weld			
·	Crushed/	Crimped	-		Burrs		nstruct	ions Incomplete/Unclear	Part Lost/N		Wrong Stock Pulled			
	Cuffs				Contamination		Mainte	nance	Part Moved					
Heat Treat			1	Countersink	l Ir	vislabe	led	Positioned 1	Positioned Wrong					

Misread

Out of Calibration

Out of Sequence

Outside Dimensions

Offset

Cut Too Short

Drill Holes

Drawing

Finish

Folio

DQA:

Power Loss/Surge

Date:

Other

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Ripples in Bend

Turning Sequence

Wave/Twist in Tube

Inspection Strip in Tube

Torque Waves in Extrusion

April-16-13 12:34:43 PM

Work Order ID: 99930 -

646.400 I

99930 *646 4001*

Parent Item Name: AS350 Cable Cutter

Parent Item:

646.3610

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Oty: 1.00

Location

125083

ST139A

Each 18.0000

Manufactured

Manufactured

No

No

125083 7 11 93434 11 Each

2.0000

Loc Code

125083

646.3714

Gusset

Location ST139A

93175

Loc Oty 2

2

Each

Loc Qty

Loc Code

1,756.000



MS20470AD5-6

646.3812

Purchased

Manufactured No Location ST336

105433 124089

93185

Loc Qty 1756

866 890 Each Loc Code

9.0000

**

13-04-26 1499607 lu

Gusset Bracket

Location ST139B

Loc Qty

Loc Code

NCD.	Voc	1	No
NCR:	Yes	/	No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA:	Date:		
		•	
Cl d .	Data		

													QA Closed:	Date		
Work Orde	er:						DISPOSITION					AGAINST DEI	PARTMENT/	PROCESS	_	
Part N	lo						Rework Scrap		f	Skid-tube Machining		Crosstube Small Fab Finishing		Water Jet	Engineerin Qualit Othe	y
NCR N	lo				ļ		Use-as-is Work Order Update			noforming Large Fab	· [Composite	Rec/Stor	e/Packaging Supplier		
Root					De	scri	otion of work order update	li	nitial		Actio	n	Sign &			
Cause	D	ate	Step	Qty		(or Non-conformance	Chi	ef Eng	De	escrip	tion	Date	Verification	QC Inspe	ector
Doc/Data															1	
Equip/Tooling															İ	
Operator									!							
Material		1														
Setup														•		
Other		İ													1	
Process																
Supplier														-		
Training																
Unapproved																
					1		F	AUL	T CATE	GORY					· · · · · · · · · · · · · · · · · · ·	
Landi	ng Gear						General						•	_	<u>.</u>	i
	Ben	ding					Bend	\Box	Grain				Ovalized		Pressure/For	ced
	Cent	tre Not	t Concer	ntric to	o/s		BOM/Route	\Box	Hardwa	re			Over/Under	tolerance	Temperature	/Cure
	Crac	ks					Broken/Damaged		Inspecti	on Incomplete	<u> </u>		Part Incorred	ct [Weld	
	Crus	shed/C	rimped.				Burrs		Instruct	ions Incomplet	te/Und	clear	Part Lost/Mi	ssing	Wrong Stock	Pulled
	Cuff	s					Contamination		Mainte	nance			Part Moved	-		
	Hea	t Treat					Countersink		Mislabe	led			Positioned V	/rong		
	Insp	ection	Strip in	Tube			Cut Too Short		Misread	l			Power Loss/:	Surge	Other	
	Ripp	oles in I	Bend				Drill Holes	П	Offset				- 			
	Tord	que Wa	aves in E	xtrusio	n 📗		Drawing	П	Out of (Calibration						
	_		quence		ł		Finish	П	Out of S	Sequence						
	_	_	st in Tub	e	l		Folio	П	Outside	Dimensions						
							1									

H:/FORMS/Quality Assurance\approved QA/NCRWO Revio

April-16-13 12:34:43 PM

Work Order ID: 99930

646,4001

99930

Parent Item Name: AS350 Cable Cutter

Parent Item:

AN3-3A

646.3813

MS20470AD5-7

646 4001

Location

ST139d

Location

2655

3011

123425

123268

123301

123522

Mezz

ST336

Location

ST316

No

Start Date: 4/16/13

Required Date: 4/30/13

**

**

Start Qty: 1.00 268.0000

Required Qty: 1.00

Manufactured

Strut Bracket

Purchased No

Purchased

Rivet

MS21047-3

Purchased

No

Location Loc Qty ST350 268 123831 7 124221 200 124552 61 Each

Loc Oty

Loc Qty

445

75

50

320

1384

799

585

Each

Loc Qty 5 125083 5 Each

2,194.000

Loc Code

Loc Code

5.0000

** Loc Code

810 810 Each 445.0000

Loc Code

23268

**

Shop Packet Print

NCR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE QA Closed: Date:							:						
Work Orde	r:		•			DISPOSITION				AGAINST D	EPARTMENT	PROCESS	
Part N	o					Rework Scrap		ľ	Skid-tube Machining	Crosstube Small Fab		Water Jet	Engineering Quality Other
NCR N	0					Use-as-is Work Order Update			noforming Large Fab	Finishing Composite	Rec/stor	e/Packaging Supplier	Other
Root				De	scri	otion of work order update	T i	nitial	Ac	tion	Sign &		
Cause	Date	Step	Qty		(or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data													
Equip/Tooling													
Operator													\
Material							ļ						
Setup								1					
Other													
Process		}	·										'
Supplier													
Training													
Unapproved				<u> </u>			<u></u>						
							AUL'	T CATE	GORY				
Landin						General				Г	-	_	-
-	Bending			-	<u> </u>	Bend)	Grain		Ļ	Ovalized	ļ	Pressure/Forced
	Centre No	ot Conce	ntric to	O/S	_	BOM/Route	\vdash	Hardwa		ļ	Over/Under	<u> </u>	Temperature/Cure
-	Cracks				_	Broken/Damaged	-		on Incomplete		Part Incorre	-	Weld
	Crushed/	Crimped.				Burrs			ions Incomplete/	'Unclear	Part Lost/Mi	ssing	Wrong Stock Pulled
-	Cuffs					Contamination		Mainte		L	Part Moved		
	Heat Trea					Countersink	Mislabeled				Positioned V		-
	Inspection	-	Tube	•		Cut Too Short	Misread			Ĺ	Power Loss/	Surge	Other
L	Ripples in Bend Drill Holes Offset												
	Torque W	aves in E	xtrusio	n		Drawing	-		Calibration				
	Turning Sequence					Finish	Out of Sequence						
	Wave/Twist in Tube					Folio		Outside	Dimensions				

DQA: _____ Date: ____

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April-16-13 12:34:43 PM

Work Order ID: 199930

Parent Item:

CCR264SS3-02

AN3-5A

646.3715

646.4001

Parent Item Name: AS350 Cable Cutter

99930 *646 4001*

No

No

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

740.0000

Loc Code

Loc Code

Required Qty: 1.00

Purchased

Purchased

Location Loc Oty ST327 740 106578 100 123785 240 124231 200 124259 200

1,103.000 Each

Each

Location Loc Qty FP001 86 122800 86 GA 120 117423 120 ST350 22 120187 22 ST512 875 122416 75 124561 800

Each 12.0000

Manufactured

Location ST139B

93338

Loc Qty 12 12 Loc Code

93338

April-16-13 12:34:43 PM

Shop Packet Print

Page 10

NCR:	Yes	/	No
		,	

WORK ORDER NON-CONFORMANCE / UPDATE

DQA:_	Date: _	
QA Closed:	Date:	• ,
EPARTMENT/I	PROCESS	
Prod	Water Jet	Engineering

						<u> </u>							QA Closed:	Dat	te:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Work Ord	er:	·					DISPOSITION				AG	AINST DE	PARTMENT	/PROCESS		
Part NCR							Rework Scrap Use-as-is Work Order Update			Skid-tube Machining noforming Large Fab	Sma Fin	stube III Fab ishing posite		Water Jet d. Eng. Coor. re/Packaging Supplier		Engineering Quality Other
Root					De	scrip	otion of work order update		nitial	Ac	ction		Sign &	-		
Cause		Date	Step	Qty		0	r Non-conformance	Ch	ief Eng	Desc	cription		Date	Verification	า	QC Inspector
Doc/Data Equip/Tooling Operator												-	·			
Material																
Setup		i.														· •
Other	M															,
Process		1														
Supplier																
Training																
Unapproved			.l													
							F	AUL	T CATE	GORY						
Land	ing (Gear			1	_	General	_	1				7	1		1 .
	匚	Bending				\vdash	Bend		Grain			<u> </u>	Ovalized		_	Pressure/Forced
	L	Centre N	ot Conce	ntric to	O/S	-	BOM/Route	_	Hardwa			<u> </u>	Over/Under		L	Temperature/Cure
		Cracks			1	-	Broken/Damaged		1 '	ion Incomplete			Part Incorre		_	Weld
	\vdash	Crushed/	Crimped.		1		Burrs	_	1	ions Incomplete	/Unclear		Part Lost/Mi	issing	Ŀ	Wrong Stock Pulled
		Cuffs				Ш	Contamination		Mainte			<u> </u>	Part Moved			
		Heat Trea			1	\square	Countersink	\vdash	Mislabe				Positioned V	-		1
	<u> </u>	Inspectio	•	Tube		\vdash	Cut Too Short	_	Misread				Power Loss/	Surge	<u> </u>	Other
	<u> </u>	Ripples in			İ		Drill Holes	_	Offset							
		Torque W			n	-	Drawing	Out of Calibration								
	<u> </u>	Turning S				-	Finish	Out of Sequence								
	l	Wave/Twist in Tube Folio					Outside	Dimensions								

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April-16-13 12:34:43 PM

Work Order ID: 1999302-12-12

99930

No

Parent Item:

MS27039-1-12

646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 4/16/13 Start Oty: 1.00

Required Date: 4/30/13

Required Qty: 1.00

Location Mezz 100993

Loc Qty 169 169 Loc Code

169.0000

Each

Each 4.0000 100993

Gauge Bracket

MS20426AD5-7

646.3716

Location 125083 125083

Loc Qty

Loc Code

813.0000

**

Location

ST334

Loc Oty

813 813

Each

Loc Code

101340

MS24694-S54

Purchased

Purchased

Purchased

Manufactured

No

No

101340

Each

76.0000

Location ST303 123900

124859

Loc Qty 76 75 Loc Code

124859

						-	•					DQA:	Date	:
NCR:	'es	/ No				WORK ORDER NON-CONFORMANCE / UPDATE								
						┸		-				QA Closed:	Date	•
Work Orde	er:						DISPOSITION AGAINST DEPARTMENT/PROCESS							
Part N	lo.						Rework Scrap Use-as-is Work Order Update		Thern	Machining Sma	istube all Fab ishing posite	1	Water Jet d. Eng. Coor. e/Packaging Supplier	Engineering Quality Other
Root				<u> </u>	D	escri	ption of work order update		nitial	Action	· · /. · ·	Sign &		
Cause		Date	Step	Qty			or Non-conformance	1	ief Eng	Description		Date	Verification	QC Inspector
quip/Tooling Operator Material etup Other rocess upplier raining													_	
Inapproved				<u> </u>	1		·	<u> </u> Δ111	T CATE	GORY] -	<u> </u>
Landi	ng (-						General		CAIL	30K1			· · · · · · · · · · · · · · · · · · ·	
		Bending Centre No Cracks Crushed/O Cuffs Heat Trea Inspection Ripples in Torque W	Crimped t n Strip in Bend 'aves in E	Tube			Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing		Instruct Mainte Mislabe Misread Offset Out of (on Incomplete ions Incomplete/Unclear mance led i		Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct ssing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
		Turning Se	equence		1		Finish Out of Sequence							,

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Wave/Twist in Tube

Folio

Parent Item:

MS27039-1-21

MS27039-1-20

MS27039-1-19

April-46-13 12:34:43 PM

Work Order ID: 199930

646,4001

Parent Item Name: AS350 Cable Cutter

99930

646 4001

Purchased

No

Start Qty: 1.00

Required Date: 4/30/13

Required Qty: 1.00

343.0000

Start Date: 4/16/13



Purchased

No

Location Loc Qty Loc Code ST306 43 115935 43 ST506 300 124326 300 Each

478.0000







Purchased No

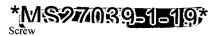
st510

124326

Location

Loc Qty Loc Code 478 478 Each 848.0000

Each





Location Loc Oty ST306 102 ...122814 2 123522 100 ST506 746 124326 746 Each Loc Code

2.0000



646.3717

Manufactured

Location Loc Qty Loc Code ST139B

2

125083

NCR: Y	'es	/ No				WORK ORDER NON-CONFORMANCE / UPDATE QA Closed: Date:								
Work Orde	· ·						DISPOSITION				AGAINST DI	EPARTMENT/		
Part N	lo.						Rework Scrap Use-as-is Work Order Update			Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	⊣	Water Jet d. Eng. Coor. e/Packaging Supplier	Engineering Quality Other
Root					De	scri	ption of work order update	1	nitial	Acti	ion	Sign &		
Cause		Date	Step	Qty		(or Non-conformance	Ch	ief Eng	Descri	iption	Date	Verification	QC inspector
oc/Data														
quip/Tooling													• .	
perator														
/laterial						ł								
etup														
ther														
rocess														
upplier					1									
raining														
inapproved														
							F	AUL	T CATE	GORY				
Landir	ng G	Gear					General		_					_
		Bending			1		Bend		Grain			Ovalized		Pressure/Forced
		Centre No	t Concer	ntric to	o/s		BOM/Route		Hardwa	ire		Over/Under	tolerance	Temperature/Cure
		Cracks					Broken/Damaged		Inspect	ion Incomplete		Part Incorred	ct	Weld
Ì		Crushed/C	Crimped.		ĺ		Burrs		instruct	ions Incomplete/U	Inclear	Part Lost/Mi	ssing	Wrong Stock Pulled
		Cuffs			ł		Contamination		Mainte	enance	-	Part Moved		-
ľ		Heat Trea	t		1		Countersink		Mislabe	eled		Positioned V	Vrong	
	\neg	Inspection	Strip in	Tube	1		Cut Too Short		Misread	t		Power Loss/	Surge	Other
	\dashv	Ripples in	*		- 1		Drill Holes		Offset		_		· ·	
		Torque W		xtrusio	n		Drawing		Out of	Calibration				
		Turning Se					Finish		Out of 9	Sequence				
ľ	_	Wave/Twi	•				Folio	Outside Dimensions						

DQA:

Date:

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

April-46-13 12:34:43 PM

Work Order ID: 599930 -

Parent Item:

646.4001

Parent Item Name: AS350 Cable Cutter

99930 *646 4001*

ST506

124326

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

646.3718

Custom Washer

Manufactured

Each 45.0000

Loc Code

Manufactured

Location Loc Qty ST139A 125083 ST522 38 93365 38

Each 24.0000 125083

646.3719

MS27039-1-10

Purchased No

Location Loc Qty Loc Code ST139B 24

125083 24 Each

Screw

Location Loc Oty Loc Code GA 100 120449 100 ST305 101 122815 124859 100 ST308 18 123522 18

102

102

321.0000

124326

NGD	/ Al	_				WORK ORDER NON-O	~~n	VIEW DA	AANCE / HB	DDATE	DQA:	Date	:
NCR: Y	es / N					WORK ORDER NON-C	JOI	VEORI	VIAINCE / OF	DAIL	QA Closed:	Date	:
Mark Orda		7				DISPOSITION				AGAINST [DEPARTMENT	/PROCESS	
	Part No. Rework Skid-tube Scrap Machinin Use-as-is Thermoformin							···	Crosstube Small Fab Finishing		Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other	
NCR N	0	<u></u>				Work Order Update	J		Large Fab	Composite		Supplier	· []
Root Cause	Date	Step	Qty	Des		ntion of work order update	1	Initial nief Eng		ction cription	Sign & Date	Verification	QC Inspector
Doc/Data	Date	s Step	Qty			r Non-comormance		ilet Elig	Desi	LI PUOI	Date	Verification	Qe mapeeter
Equip/Tooling	\neg												
Operator				1								,	
Material													
Setup				1.							Ì		
Other										•			
Process			1										
Supplier													
Training													
Unapproved			<u> </u>										
						F.	AUL	T CATE	GORY				
Landir	ng Gear			1.		General	_	,		-	_	· · ·	<i>:</i>
	Bendir	•				Bend		Grain		1	Ovalized	<u> </u>	Pressure/Forced
	Centre	Not Conce	entric to	o/s	_	BOM/Route	_	Hardwa		ļ.	Over/Under	<u> </u>	Temperature/Cure
	Cracks					Broken/Damaged		Inspecti	on Incomplete	1	Part Incorre	<u> </u>	Weld
· I	Crushe	d/Crimped	l <u>.</u>			Burrs	<u>_</u>	Instruct	ions Incomplete,	/Unclear	Part Lost/M	issing	Wrong Stock Pulled
	Cuffs					Contamination	_	Mainte		1	Part Moved		
	Heat T	reat				Countersink		Mislabe	led	1	Positioned \		· ·
	Inspec	tion Strip ir	n Tube			Cut Too Short		Misread	i	į	Power Loss/	Surge	Other
	Ripple	s in Bend				Drill Holes	Offset				***		
	Torque	Waves in	Extrusio	n 📗		Drawing	Out of Calibration						
	Turnin	Turning Sequence Finish Out of Sequence											

Outside Dimensions

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev 6

Wave/Twist in Tube

Folio

April-16-13 12:34:43 PM

Work Order ID: 99930 -

Parent Item:

Parent Item Name: AS350 Cable Cutter

Purchased

646.4001

99930 *646 4001*

No

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

672.0000

Each

AN3-11A	
AN3	=11A

Bolt						**		\JD	
			Location	Loc Qty	Loc Code				•
			ST351	72					
			123525	72			123525	5	
•			ST512	600					•
			115457	100					
			123352	200					
			123759	300					
600.0990	Purchased	No		Each	9.0000				_
600.0990				Zuen	2.0000			· .	
Magnabond 6398 Part A (LOne 4 oz can)						**		23	
avagnavond 05984 art Astrone 4 02 can)									
\sim \sim			<u>Location</u>	Loc Oty	Loc Code		•		
			ST	9					
,			125051	9			12505		
600.0991	Purchased	No		Each	9.0000				
_ *600•00011*	•					**			
Magnabond 6398 Part B (One 4 oz can)						^^ (13	
- Inglitted its of all E (One + Oz carr)						,		0	
	1 8 J	•	Location	Loc Oty	Loc Code				
>M			ST	9					·
(00.1010			125051	9			125051		
600.1012	Purchased	No		Each	9.0000				
£600-1012*						**		_	:- 10/
Sealant (One 6 oz Semkit)						••••		90	13-04-26
$\langle \cdot \rangle$			Location	T 0:				,	
\supset m \sim				Loc Oty	Loc Code				
·			ST	9				6	
			125051	9			12205	1	
•							*		

NCR:	Yes	1	No
NCN.	162	/	INC

WORK ORDER NON-CONFORMANCE / UPDATE

DQA:	Date:	
-		

									QA Closed:	Date:		
Work Orde	er:				DISPOSITION		AGAINST DEPARTMENT/PROCESS					
Part No					Rework Scrap Use-as-is Work Order Update	l	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	4	Water Jet d. Eng. Coor. ee/Packaging Supplier	Engineering Quality Other	
Root De					scription of work order update	Initial	Δς	tion	Sign &			
Cause	Date	Step	Qty		or Non-conformance	Chief Eng		ription	Date	Verification	QC Inspector	
Doc/Data		1		ĺ		Ť		· · · · · · · · · · · · · · · · · · ·				
Equip/Tooling												
Operator											·	
Material						}	İ					
Setup	_											
Other												
Process			·				}					
Supplier	_									•		
Training	_											
Unapproved		<u> </u>	L	<u> </u>		1	CODY					
						AULT CATE	GORY					
Landir	ng Gear				General	Grain			Ovalized		Pressure/Forced	
	Bending	-+		0/5	Bend BOM/Route	Hardwa		 	Over/Under	talaranca	Temperature/Cure	
	Centre N Cracks	ot Concer	itric to	0/5	Broken/Damaged	\vdash	ion Incomplete		Part Incorred	ļ	Weld	
	Crushed/	Crimpod		1	Burrs		tions Incomplete/	Uncloar	Part Lost/Mi	<u> </u>	Wrong Stock Pulled	
	Cuffs	Crimpeu.			Contamination	\blacksquare	enance	Officieal	Part Moved	331116	J VV TOTIS STOCK T diled	
	Heat Trea	ət			Countersink	Mislab			Positioned V	Vrong		
	Inspection		Tuhe		Cut Too Short	Misrea		 	Power Loss/		Other	
ŀ	Ripples in		TUDE		Drill Holes	Offset	~	<u>L</u>	J. 5 c. 2533/		1	
	Torque V		xtrusio	n	Drawing	$\boldsymbol{\longmapsto}$	Calibration					
	Turning S				Finish	 	Sequence					
Wave/Twist in Tube			Folio	\vdash	e Dimensions							
wave/Twist in Tube					I II - II -	1 1 2 2 2 3 4 7						

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April-16-13 12:34:43 PM

Work Order ID: 99930

Parent Item:

646.4001

Parent Item Name: AS350 Cable Cutter

99930
646 4001

Start Date: 4/16/13 Required Date: 4/30/13 Start Oty: 1.00 Required Qty: 1.00 600.01.29 Purchased No 128.0000 Location Loc Otv Loc Code ST 128 125031 128 600.1013 Purchased No Each 945.0000 Tape Primer Location Loc Qty Loc Code ST139A 945 125154 945 25154 646.3910 Manufactured Each 72.0000 Location Loc Qty Loc Code ST139B 22 125083 22 ST139d 50 93238 50 646.3911 Manufactured No Each 20.0000 Shim Location Loc Qty Loc Code ST139A 125083 ST139d 19

19

93362

93362

NCR: Y	R: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE ·												
											QA Closed:	Date	:
Work Orde	r:					DISPOSITION				AGAINST DE	PARTMENT/	-	7
Part No. NCR No.						Scrap N Use-as-is Therm		Skid-tube Crosstube Machining Small Fab ermoforming Finishing		Water Jet Prod. Eng. Coor. Rec/Store/Packaging		Engineering Quality Other	
NCR No. Work Order Update Large						Large Fab	Composite		Supplier				
Root Cause	Date	Step	Qty	Des	•	on of work order update Non-conformance		nitial ief Eng	Actio Descri		Sign & Date	Verification	QC Inspector
oc/Data quip/Tooling perator Material etup other rocess upplier raining													
						F.A	\UL	T CATE	GORY				
Landin	Bending Centre f Cracks Crushed Cuffs Heat Tre Inspecti Ripples	Not Conce /Crimped eat on Strip in in Bend	Tube		Bi Bi Cc Cc Cu	General end OM/Route roken/Damaged urrs ontamination ountersink ut Too Short		Instruct Mainte Mislabe Misread Offset	on Incomplete ions Incomplete/U nance led	nclear	Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned W Power Loss/	ssing /rong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
Torque Waves in Extrusion			יטן ן	rawing	L	Jour of C	Calibration						

Out of Sequence

Outside Dimensions

DQA: _____ Date: ____

Turning Sequence

Wave/Twist in Tube

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev 6

April-16-13 12:34:43 PM

Work Order ID: 99930 ---

Parent Item:

646.4001

Parent Item Name: AS350 Cable Cutter

99930 *646 4001*

646.3912

Manufactured

Start Qtv: 1.00

73.0000

Loc Code

Each

Required Date: 4/30/13 Required Qty: 1.00

646.3913

AN3-12A

Manufactured

Location Loc Qty ST139A 22 125083 22 ST139d 51 93423 51 Each

36.0000

Start Date: 4/16/13



646 3913

Purchased No

Location Loc Oty ST139B 16 125083 16 ST139d 20 93160 20 Each

Loc Code

59.0000

125083



Location Loc Qty Loc Code GA 122407 ST351 114536 123352 ST512 48

48

123759

123759

NCR:	Yes	1	No
NCN.	162	1	110

Part No.

NCR No.

Root

Cause
Doc/Data
Equip/Tooling
Operator
Material
Setup
Other
Process
Supplier
Training

Work Order:

Date

Step

Qty

WORK ORDER NON-CONFORMANCE / UPDATE

DISPOSITION

Work Order Update

Description of work order update

or Non-conformance

Rework Scrap

Use-as-is

NEODI	MAANCE / III	DD ATE	DQA:	Date:	
NFORI	MANCE / UI	PUATE	QA Closed:	Date:	•
		AGAINST DE	PARTMENT	PROCESS	
ł	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	1	Water Jet d. Eng. Coor. e/Packaging Supplier	Engineering Quality Other
Initial nief Eng	ł	action scription	Sign & Date	Verification	QC Inspector
IT CATE					

Unapproved								
					FAU	LT CATEGORY		
Landing Gear				General				
		Bending		Bend		Grain	Ovalized	Pressure/Forced
		Centre Not Concentric to O/S	\prod	BOM/Route		Hardware	Over/Under tolerance	Temperature/Cure
		Cracks	\prod	Broken/Damaged	. [Inspection Incomplete	Part Incorrect	Weld
		Crushed/Crimped.	Γ	Burrs		Instructions Incomplete/Unclear	Part Lost/Missing	Wrong Stock Pulled
		Cuffs	\prod	Contamination		Maintenance	Part Moved	•
		Heat Treat		Countersink		Mislabeled	Positioned Wrong	
		Inspection Strip in Tube		Cut Too Short		Misread	Power Loss/Surge	Other
		Ripples in Bend	$I \sqcap$	Drill Holes		Offset		
		Torque Waves in Extrusion		Drawing		Out of Calibration		
		Turning Sequence		Finish		Out of Sequence		
		Wave/Twist in Tube	1 [Folio		Outside Dimensions		

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1pril-16-13 12:34:43 PM

Work Order ID: 1,99930

Parent Item:

646,4001

Parent Item Name: AS350 Cable Cutter

MS27039-1-16

99930

No

646 4001

Start Date: 4/16/13

Required Date: 4/30/13

Start Qty: 1.00

Required Qty: 1.00

Purchased

Each

70.0000

Loc Code

Location Loc Qty ST306 122993

70 70

122993

NCR:	Yes	1	No

WORK ORDER NON-CONFORMANCE / UPDATE

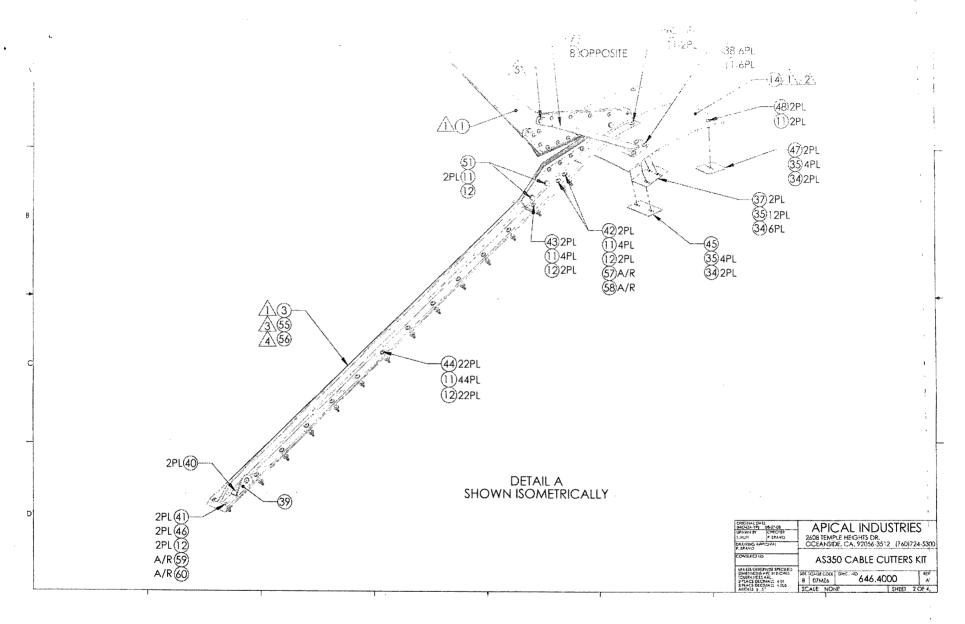
DQA:	Date:	
		 *

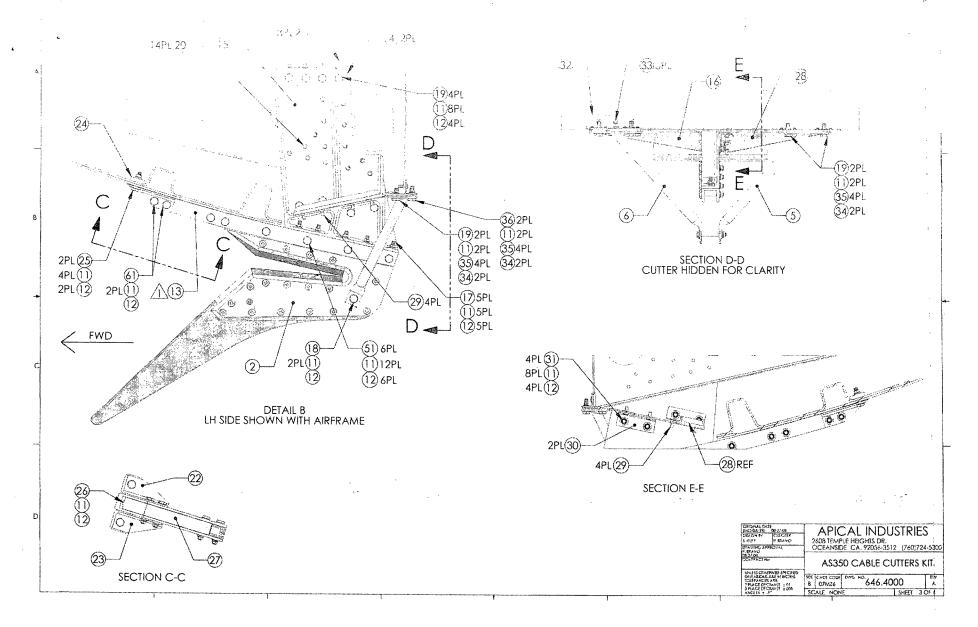
					,								QA C	osed:	Da	te:	
Work Orde	er:	·					DISPOSITION					AGAINST D	EPARTI	MENT/	PROCESS		
Part N						•	Rework Scrap Use-as-is Work Order Update	Machining Small Fab Prod. Eng. Coor. Quasi-is Thermoforming Finishing Rec/Store/Packaging Otl						Engineering Quality Other			
Root					De	cri	ption of work order update	11	nitial		Ac	tion	Sigi	1&			
Cause		Date	Step	Qty	l		or Non-conformance	Ch	ief Eng		Desc	ription	Da	ite	Verificatio	n	QC Inspector
Doc/Data			•														
Equip/Tooling		1															
Operator			:										i				
Material																	
Setup																	
Other																	
Process													ļ				
Supplier																	
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Unapproved												***					
							F/	AUL	T CATE	GORY							
Landi	ng G	ear					General	,									
		Bending				L	Bend	Ш	Grain			_	Ovaliz	ed:			Pressure/Forced
		Centre No	t Concer	ntric to	o/s		BOM/Route		Hardwa	re		L	Over/	Under	tolerance		Temperature/Cure
	<u></u>	Cracks					Broken/Damaged		Inspecti	on Incompl	ete		Part I	ncorre	ct		Weld
	LJ'	Crushed/C	Crimped.				Burrs		Instruct	ions Incomp	olete/	Unclear	Part L	ost/Mi	ssing		Wrong Stock Pulled
		Cuffs					Contamination	Ш	Mainte	nance		_	Part N	Noved			
		Heat Trea	t	·			Countersink	Ш	Mislabe	led			_	oned V	_		
		Inspection	Strip in	Tube		L	Cut Too Short		Misread	l			Powe	r Loss/	Surge		Other
		Ripples in	Bend				Drill Holes		Offset								
		Torque W	aves in E	xtrusio	n		Drawing		Out of (Calibration							
Turning Sequence Finish				Out of S	equence							·					
		Wave/Twi	ist in Tub	e			Folio		Outside	Dimension	S						

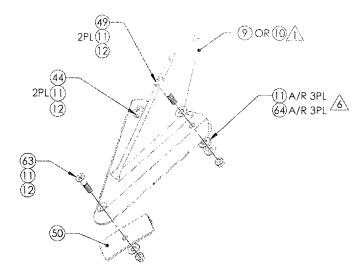
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	ng vi N. P. N 1902 - 15 CO. A (page) or highly half the Adapting the relative descriptions are considerate as a surface and a surface as a s	anggarangangangan series - etc. d-Telepseiger Estate Assertin dans com coloniganga spinanesis and an			water expose of the chieff prof. for a find water 200gs to development water. The first			
	ENGINEERING CHA		- 03079)	r	SHEE		1
APICAL	DWG NO. 646.400	0 REV: A	PREPARED BY:	N.CAP	DATE: 03/	21/11	EFFECT I	
INDUSTRIES, INC.	DWG TITLE: AS3	50 CABLE CUTTE	ERS KIT	**** · ****	<i>A</i> .			
	APPROVED BY	Sano MFG C	ant Barbo	OC/L	wireffine	EFF, N	NEXT ORI)ER
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE	REASON CREATEI				PROVISIONS	KIT		
SHEET 1,	BDM, IS:	\$7.5% - 9FY 1 - 55 750		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$2 600.0990 Modrators \$1 601.2826 BIL T \$0 646.3814 VIPER \$49 601.2910 SCREV \$47 646.3718 CLISTOR \$45 646.3718 CLISTOR \$45 646.3718 CLISTOR \$45 646.3718 CLISTOR \$44 601.1948 SCREV \$43 601.1956 SCREV \$41 601.2948 SCREV \$41 601.2958 SCREV \$41 601.2958 SCREV \$41 601.2958 SCREV \$40 601.2831 RIVET \$39 646.3716 RIVET	BRACKET IS27 R VASHER R IS27 R IS27 R IS27 R IS28	259-1-19 259-1-19 259-1-19 259-1-19 259-1-21 259-1-21 259-1-21 259-1-21	
		NO 09930 M	रा	2 2 2 36 18 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	38 601.953 SCREW 37 646.3715 STRUT 36 601.2824 BRLT 35 601.2827 RIVET 34 600.0795 NUTPLA 33 601.2565 RIVET 32 646.3813 STRUT 31 601.2822 BRLT 30 646.3812 GUSSET 29 601.2564 RIVET 28 646.3814 GUSSET 29 601.2564 RIVET 28 646.3815 RIVET 28 646.3816 RIVET 28 646.3817 GUSSET 27 646.3818 SCREW 25 601.2835 BRLT 26 646.3711 CLIP 22 646.3711 CLIP 22 646.3711 CLIP 21 601.2832 RIVET	DOUBLER DOUBLER AND COMMENT OF MESSA REACKET AND BRACKET NSSB4 NSSB4 REDCX NSSB4 NSS	E39-1-12 O-54 683-3-42 3947-3 70485-7 70485-7 70485-6 1694335 O-64 PM-6-1	
	REF REF 65 647.5701 6 64 601.3151 6 64 601.3151 6 64 601.2151 6 64 601.2151 6 64 650.2151 6 64 650.2151 6 64 650.2151 6 64 650.2151 6 64 650.2151 6 64 650.2151 6 64 650.2151 6 64 650.2151 6 6 650.2151 6 6 6 6 6 6 6 6		SPEC	14 14 14 10 10 10 10 10 10 10 10 10 10 10 10 10	9 646,3410 LIN VIPER 8 646,3513 STRUT 7 646,3512 STRUT 6 646,3511 STRUT 4 646,3510 BRAXET 3 646,3510 BRAXET 2 646,3001 LINVER (2 646,3001 LINVER (2 646,3001 LINVER (3 646,3001 LINVER (3 646,4004 FDDB FROM 646,4003 PROCESSED FROM 646,4003 PROCESSE	MARCHINE RET	23-5-3 0-4A 1-13A 69423 0042.3 WWIEP	}
DOCUMENTS EFFECTED:	XIMDL XII	NSTALL INSTRUC 🗵	ICA 🖾 E	CHANGE CA	ATEGORY DER	REVIEW J YES (REQUIRED XI NO	
				1		'	· · -	

	ENGINEERING CHANGE NUTICE NO. 03046 SHEET 1 OF 1
APICAL	DWG NO. 646.4000 REV: A BREPARED J. JACKSON DATE: 01/24/11 EFFECT DN DWG
INDUSTRIES, INC.	DWG TITLE: AS350 CABLE CUTTERS KIT
	APPROVED BY, ENGR Brance MFG Davy Power OCHISHUR STORDER
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE	REASON: ADDED GPS MOUNT KIT, F/N 65. REVISED DRAWING VIEWS! ADDED NOTE 2.
SHEET 1, ZONE B1	IS:
AT CUSTOM	MERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1.
773 111 000121	SENS OF TROOP INSTRUCT ON DE FINITION DIVIDENTAL STATE OF THE STATE OF
SHEET 2, ZONE A4	SHEET 2, ZONE B2 IS:
SHEET E, ELHYL MY	REF REF
DETAIL D	8 OPPOSITE
7	
	REF (I)
	NET 1
10	
	2PL (1) TYPICAL GPS MOUNT KIT INSTALLATION TYPICAL GPS MOUNT KIT INSTALLATION
65 A 647.5701	REF GPS MOUNT KIT
F/N TC PART NUMBER	A001 DESCRIPTION MATERIAL SPECIFICATION
DOCUMENTS EFFECTED:	☐ MDL ☐ INSTALL INSTRUC ☐ ICA ☒ BOM ☐ MAJOR ☒ MINOR ☐ YES ☒ NO







DETAIL C LH SHOWN EXPLODED RH OPPOSITE

OPPOSENT DA	7E 08:07-06	ΔPI	CAL INDUSTRIES
ENAWN BY	CHECKEP ERAYO		PLE HEIGHTS OR.
CHAMPIC AF			DE, CA. 92056-3512 (750)724-5300
COURFACT N		_ AS3	50 CABLE CUTTERS KIT
TOTETANCE TOTETANCE	CHANES 1.0:	S O7M26	646.4000 X
ANDRES :	SEMALS 2005	SCALE NO	NE SHEET 4 OF A

D

1. Approving National Aviation
Authority/Country:
FAA/UNITED STATES

2.

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

MG13-078

4. Organization Name and Address:

Apical Industries, Inc.

2608 Temple Heights Drive Oceanside, CA 92056

PQ1886NM

5. Work Order/Contract/Invoice Number: Shipper # 12443 P.O. # AS350-CCK/PO 1933 |

	[· · · · · · · · · · · · · · · · · · ·
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1.	Upper Cutter Assy	646.3301	N/A	16	119640-3	New
2.	Lower Cutter Assy	646.3001		20	119737-1	
3.	Deflector	646.2910		17	119572-1	
4.	Doubler	646.3710		2	113434-1	
5.	Strut Doubler	646.3715		2	114916-7	
· 6.	Gusset	646.3714		2	113434-3	
7.	Doubler	646.3715		2	113434-4	
8.	Shim	646.3911		2	113080-5	
9.	Gusset	646.3713		3	113434-2	
, 10.	Bracket	646.3810		6	113012-4	
11.	Support	646.3210		4	114263-3	
(12:	GussetiBracket	-646.38 12 -		.8	到113579:1	İ
13.	Strut Bracket	646.3813		5	112165-3	·
14.	Shim	646.3910		26	114916-5	
15.	Shim	646.3912		26	114916-6	
16.	Channel	646.3110		7	118257-8	

13. Remarks:

EXPORT AIRWORTHINESS APPROVAL

- A. These parts listed in Block 7. are subcomponents of a PMA Article
- B. Bilaterial Agreement None
- C. Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada.
- D. Last item entered.

14. Certifies the items identified above were manufactured in conformity to:								
14. Certifies the items identified above were	manufactured in conformity to:							
Approved design data and are in co	ndition for safe operation							
Non-approved design data specified	in Block 13.							
15. Authorized Signature:	16. Approved/Authorization No.:							
	DMIR 606259-NM							
17. Name (Typed or Printed):	18. Date (m/d/y):							
Lisa Mansfield	March 18, 2013							
User/Installer Responsibilities								

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different that the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country:					3. Form Tracking Number: Page 3 of 3			
FAA/UNITED STATES AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG					MG13-078			
	•						•	
4. Organization Name and Address: Apical Industries, Inc. 2608 Temple Heights Drive PQ1886NM Oceanside, CA 92056					5. Work Order/Contract/Invoice Number: Shipper # 12443 P.O. # AS350-CCK / VD 1933			
6. Item: 7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/E	Batch Number:	12. St	tatus/Work:	
33. Rivet 34. LH Wiper Deflector 35. AS350 Wiper deflector Kit RH Wiper Deflector Wiper Bracket	601.2831 646.3410 646.4002 646.3411	N/A	604 15 4 16 -45	76557-10, 107245 110777-1 031, 032, 033, 03 118480-1 10705653, 116390	44	New	-	
13. Remarks: EXPORT AIRWORT	HINESS APPROVAL			 				
	ted in Block 7. are subcompo	nents of a PMA Article	e				:	
B. Bilaterial Agre C. Items are being	shipped to Dart Aerospace L	td. in Hawkesbury, O	N, Canada.					
D. Last item enter	ed		••••••••••••		, • • • • • • • • • • • • • • • • • •	•••••		
14. Certifies the items identified abo				12 12 12 12 12 12 12 12 12 12 12 12 12 1				
Approved design data and	are in condition for safe operatio	n						
Non-approved design data	specified in Block 13.	·						
15. Authorized Signature:	16. Approved/Authoriza DMIR 606259-NM	tion No.:						
17. Name (Typed or Printed):	18. Date (m/d/y):							
Lisa Mansfield	March 18, 2013							
		User/Installer Respo	nsibilities					
It is important to understand that the	e existence of this document alon	e does not automatically	constitute authority	to install the par	rt/component/ass	embly.		
Where the user/installer performs we specified in Block 1, it is essential that country specified in Block 1.	ork in accordance with the nation at the user/installer ensures that I	nal regulations of an air nis/her airworthiness acc	worthiness authority cepts parts/componen	different that th ts/assemblies fro	e airworthiness a	uthority of ness author	the country city of the	
Statements in Blocks 14 and 19 do no accordance with the national regulat	ot constitute installation certifications by the user/installer before t	tion. In all cases, aircra the aircraft may be flow	ft maintenance record	ds must contain	an installation ce	rtification	issued in	

*Installer must cross-check eligibility with applicable technical data.

NSN: 0052-00-012-9005

FAA Form 8130-3(6-01)

1. Approving National Aviation 3. Form Tracking Number: Page 2 of 3 Authority/Country: **AUTHORIZED RELEASE CERTIFICATE** MG13-078 FAA/UNITED STATES FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG 4. Organization Name and Address: 5. Work Order/Contract/Invoice Number: Apical Industries, Inc. Shipper # 12443 2608 Temple Heights Drive PO1886NM P.O. # AS350-CCK/V0 (9 3 3) Oceanside, CA 92056 6. Item: 7. **Description:** 8. Part Number: Eligibility: * 10. **Quantity:** 11. Serial/Batch Number: 12. Status/Work: Strut = 646.3512 12 N/A 111971-3 New 18. Doubler 646.3719 24 117341-6 19. Strut 646,3510 14 117341-2 20. Strut 646.3511 14 117341-3 21. Clip 646.3711 13 117341-1 Clip 646.3712 13 117341-4 23. Custom Washer 646.3718 27 117341-5 **Gauge Bracket** 646,3716 15 117953-1 25. Filler 646,3610 17 115914-2 26. Shim 646,3913 17 117953-2 Radius Block 646.3811 20 117651-1 28. Strut 646,3513 35 11971-1, 115105-1, 115741-3 29. Bolt 601.2825 192 107245-1, 119183-2 30. Bolt 601,2827 69 106824-1, 114455-1 31. Bolt 601.2763 206 41764-3, 46468-1 32. Screw 601.2830 149 41769-8, 107245-8 13. Remarks: EXPORT AIRWORTHINESS APPROVAL A. These parts listed in Block 7. are subcomponents of a PMA Article B. Bilaterial Agreement - None C. Items are being shipped to Dart Aerospace Ltd. in Hawkesbury, ON, Canada. D. Last item entered..... 14. Certifies the items identified above were manufactured in conformity to: Approved design data and are in condition for safe operation Non-approved design data specified in Block 13. 15. Authorized Signature: 16. Approved/Authorization No.: **DMIR 606259-NM** 17. Name (Typed or Printed): 18. Date (m/d/y): Lisa Mansfield March 18, 2013 User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different that the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

user/installer before the aircraft may be flown. FAA Form 8130-3(6-01)

*Installer must cross-check eligibility with applicable technical data.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the

NSN: 0052-00-012-9005